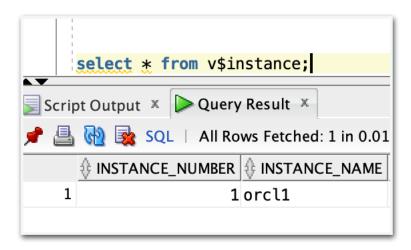
Are global Context variables working on Oracle RAC?

Since version 11.2 Global Application Contexts are working correctly in RAC This means that these global contexts are synchronised between RAC nodes.

This is a small demonstration.

We are connected to RAC node 1

If you have two nodes the SCAN listener will automatically balance the connections. So there is a good chance that the second connection will land on the second node) It can be forced by specifying the node in the connect string (



Create the setter (the name of the procedure set_rac_context is just a name, and has nothing to do with RAC databases or on RAC databases)

```
create or replace procedure set_rac_context(v_pName in varchar2, v_pValue in varchar2) is

begin
dbms_session.set_context('MY_CONTEXT',v_pName, v_pValue);
end;
//

Query Result x Script Output x

Task completed in 0.922 seconds

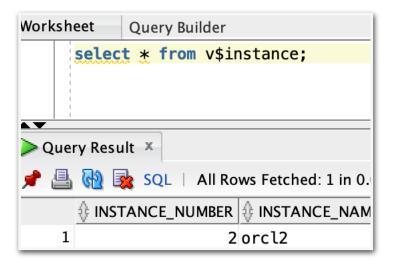
Context MY_CONTEXT created.

Procedure SET_RAC_CONTEXT compiled
```

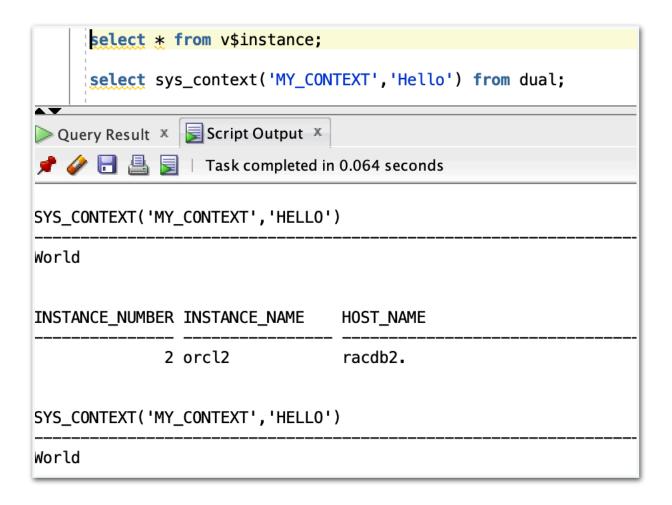
Set the name value pair.

```
exec set_rac_context('Hello','World');
```

Now we are connected to instance 2.



And we read back the value on node 2.



It also works in the other direction.

```
| Select * from v$instance;
| select sys_context('MY_CONTEXT', 'Hello') from dual;
| Query Result | Script Output |
| Query Result | Task completed in 0.064 seconds

| SYS_CONTEXT('MY_CONTEXT', 'HELLO') |
| World | INSTANCE_NUMBER INSTANCE_NAME | HOST_NAME |
| 2 orcl2 | racdb2.

| SYS_CONTEXT('MY_CONTEXT', 'HELLO') |
| World | World | HOST_NAME | HOST_NAME |
| Query Result | From v$instance; |
| SYS_CONTEXT('MY_CONTEXT', 'HELLO') |
| World | World | Host_Name |
| Sys_CONTEXT('MY_CONTEXT', 'HELLO') |
| World | Host_Name |
| Sys_CONTEXT('MY_CONTEXT', 'HELLO') |
| World | Host_Name |
| Sys_CONTEXT('MY_CONTEXT', 'HELLO') |
| World | Host_Name |
| Sys_CONTEXT('MY_CONTEXT', 'HELLO') |
| World | Host_Name |
| Sys_CONTEXT('MY_CONTEXT', 'HELLO') |
| Sys_CONTEXT('MY_CONTEXT', 'HELLO') |
```

Now we set the variable to Underworld

```
exec set_rac_context('Hello','Underworld');
```

```
select sys_context('MY_CONTEXT', 'Hello') from dual;

Script Output ×  Query Result ×

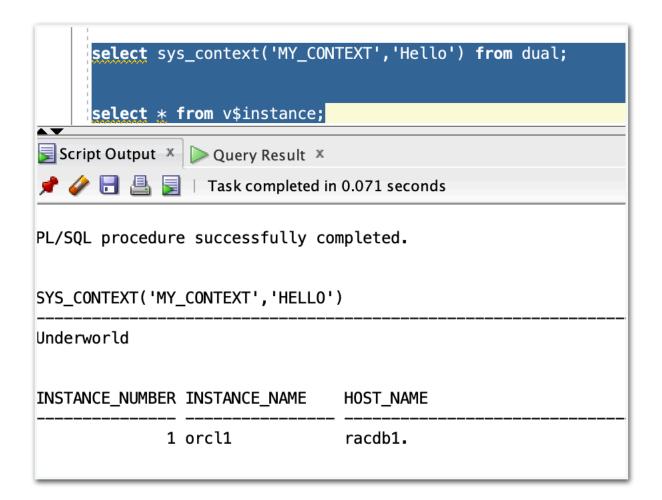
SQL | All Rows Fetched: 1 in 0.013 seconds

SYS_CONTEXT('MY_CONTEXT', 'HELLO')

1 Underworld
```

done

Back on node 1.



Its magic